

SECTION 1 — IDENTIFICATION

Product: Semax (30MG) · **Catalog ID:** HBL-SEMAX · **CAS:** 80714-61-0 · **Formula:** C37H51N9O10S · **MW:** 813.92 g/mol

Supplier: Hive Biolabs LLC, Draper, Utah, USA · research@hivebiolabs.com

Recommended use: Laboratory research use only (in-vitro). **Restrictions:** NOT for human or veterinary use; not for use as a drug, food, cosmetic, or household product.

SECTION 2 — HAZARD(S) IDENTIFICATION

The toxicological properties of this material have not been fully characterized. Not classified under 29 CFR 1910.1200 based on available data; treat as potentially hazardous. Avoid inhalation of dust, skin/eye contact, and ingestion. Research use only by qualified personnel.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Semax — synthetic peptide, lyophilized powder. CAS 80714-61-0. Sequence/identity: Met-Glu-His-Phe-Pro-Gly-Pro. May contain residual counter-ions (e.g., trifluoroacetate) and moisture typical of lyophilized peptides.

SECTION 4 — FIRST-AID MEASURES

Inhalation: remove to fresh air; seek medical attention if symptoms occur. **Skin:** wash with soap and water. **Eyes:** flush with water ≥15 minutes; seek medical attention. **Ingestion:** rinse mouth; do NOT induce vomiting; seek medical attention. Show this SDS to medical personnel.

SECTION 5 — FIRE-FIGHTING MEASURES

Not flammable as supplied. Extinguish with media suitable for surrounding fire (water spray, CO2, dry chemical, foam). Combustion may produce oxides of carbon and nitrogen. Firefighters should wear self-contained breathing apparatus.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Wear PPE per Section 8. Avoid dust generation. Sweep or wipe up material and place in a suitable closed container for disposal. Wash the spill area with water. For solutions, absorb with inert material.

SECTION 7 — HANDLING AND STORAGE

Handle per good laboratory practice; avoid dust formation. Store lyophilized at -20 °C, protected from light and moisture. Reconstituted solutions: use per laboratory protocol; store refrigerated and label with date.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

No occupational exposure limits established. Use local exhaust or fume hood when handling powders. **PPE:** nitrile gloves, safety glasses, lab coat. Wash hands after handling. Do not eat, drink, or smoke where handled.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White to off-white lyophilized powder; odorless. Soluble in aqueous buffers per laboratory practice. Molecular weight 813.92 g/mol.

SECTION 10 — STABILITY AND REACTIVITY

Stable under recommended storage conditions. No hazardous polymerization. Incompatible with strong oxidizers, strong acids/bases. Avoid repeated freeze-thaw of reconstituted solutions.

SECTION 11 — TOXICOLOGICAL INFORMATION

No comprehensive toxicological data available for this material. Not evaluated for carcinogenicity by IARC, NTP, or OSHA. Treat as a substance of unknown toxicity; handle per Sections 7–8.

SECTION 12 — ECOLOGICAL INFORMATION

No ecological data available. Do not allow material to enter drains or waterways.

SECTION 13 — DISPOSAL CONSIDERATIONS

Dispose of contents and container in accordance with all federal, state, and local regulations. Laboratory waste streams should be handled by a licensed waste disposal service.

SECTION 14 — TRANSPORT INFORMATION

Not classified as dangerous goods for transport (DOT/IATA/IMDG) as supplied.

SECTION 15 — REGULATORY INFORMATION

Supplied strictly for laboratory research use only (RUO); not for human or veterinary use, and not for use as a drug, food additive, cosmetic, or medical device. Not evaluated or approved by the U.S. FDA. The buyer affirms qualified-researcher status at purchase.

SECTION 16 — OTHER INFORMATION

Rev 1.0 — August 13, 2026. Prepared by Hive Biolabs LLC from supplier and public chemical-registry data (cross-reference: PubChem, ChemicalBook). This SDS is provided in good faith as a guide to safe handling; it is not a specification and creates no warranty. Users must determine suitability of the information for their particular purposes.